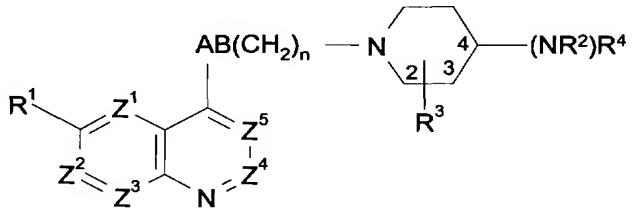
Amendments to the claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (Currently amended) A compound of formula (I) or a pharmaceutically acceptable ~~derivative~~ salt and/or N-oxide thereof:



(I)

wherein:

one of Z^1, Z^2, Z^3, Z^4 and Z^5 is N, one is CR^{1a} and the remainder are ~~CH,~~ CH, or one of Z^1, Z^2, Z^3, Z^4 and Z^5 is CR^{1a} and the remainder are CH;

R^1 and R^{1a} are independently hydrogen; hydroxy; (C_{1-6})alkoxy optionally substituted by (C_{1-6})alkoxy, amino, piperidyl, guanidino or amidino any of which is optionally N-substituted by one or two (C_{1-6})alkyl, acyl or (C_{1-6})alkylsulphonyl groups, $CONH_2$, hydroxy, (C_{1-6})alkylthio, heterocyclylthio, heterocyclyloxy, arylthio, aryloxy, acylthio, acyloxy or (C_{1-6})alkylsulphonyloxy; (C_{1-6})alkoxy-substituted(C_{1-6})alkyl; halogen; (C_{1-6})alkyl; (C_{1-6})alkylthio; trifluoromethyl; trifluoromethoxy; nitro; azido; acyl; acyloxy; acylthio; (C_{1-6})alkylsulphonyl; (C_{1-6})alkylsulphoxide; arylsulphonyl; arylsulphoxide or an amino, piperidyl, guanidino or amidino group optionally N-substituted by one or two (C_{1-6})alkyl, acyl or (C_{1-6})alkylsulphonyl groups;

or when Z^5 is CR^{1a}, R^{1a} may instead be cyano, hydroxymethyl or carboxy;

or R^1 and R^{1a} on adjacent positions may together form ethylenedioxy;

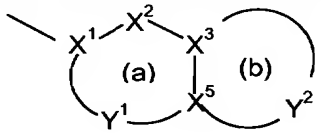
provided that when none of Z^1, Z^2, Z^3, Z^4 and Z^5 is N, then R^1 is not hydrogen;

R^2 is hydrogen, or (C_{1-4})alkyl or (C_{2-4})alkenyl optionally substituted with 1 to 3 groups selected from:
amino optionally substituted by one or two (C_{1-4})alkyl groups; carboxy; (C_{1-4})alkoxycarbonyl; (C_{1-4})alkylcarbonyl; (C_{2-4})alkenyloxycarbonyl; (C_{2-4})alkenylcarbonyl; aminocarbonyl wherein the amino group is optionally substituted by hydroxy, (C_{1-4})alkyl, hydroxy(C_{1-4})alkyl, aminocarbonyl(C_{1-4})alkyl, (C_{2-4})alkenyl, (C_{1-4})alkylsulphonyl, trifluoromethylsulphonyl, (C_{2-4})alkenylsulphonyl, (C_{1-4})alkoxycarbonyl, (C_{1-4})alkylcarbonyl, (C_{2-4})alkenyloxycarbonyl or (C_{2-4})alkenylcarbonyl; cyano; tetrazolyl; 2-oxo-oxazolidinyl optionally substituted by R^{10}; 3-hydroxy-3-cyclobutene-1,2-dione-4-yl; 2,4-thiazolidinedione-5-yl; tetrazol-5-ylaminocarbonyl; 1,2,4-triazol-5-yl optionally substituted by R^{10}; 5-oxo-1,2,4-oxadiazol-3-yl; halogen; (C_{1-4})alkylthio; trifluoromethyl; hydroxy optionally substituted by (C_{1-4})alkyl, (C_{2-4})alkenyl, (C_{1-4})alkoxycarbonyl, (C_{1-4})alkylcarbonyl, (C_{2-4})alkenyloxycarbonyl, or (C_{2-4})alkenylcarbonyl; oxo; (C_{1-4})alkylsulphonyl; (C_{2-4})alkenylsulphonyl; ~~or~~ and (C_{1-4})aminosulphonyl wherein the amino group is optionally substituted by (C_{1-4})alkyl or (C_{2-4})alkenyl;

R^3 is in the 2-, 3- or 4-position and is trifluoromethyl or is in the 2-position and is oxo; or
R^3 is in the 3-position and is fluorine or amino wherein the amino group is optionally substituted by: hydroxy; (C_{1-6})alkylsulphonyl; trifluoromethylsulphonyl; (C_{2-6})alkenylsulphonyl; (C_{1-6})alkylcarbonyl; (C_{2-6})alkenylcarbonyl; (C_{1-6})alkoxycarbonyl; (C_{2-6})alkenyloxycarbonyl; (C_{1-6})alkyl; or (C_{2-6})alkenyl; wherein a (C_{1-6})alkyl or (C_{2-6})alkenyl moiety may be optionally substituted with up to 2 groups R^{12} independently selected from:
halogen; (C_{1-6})alkylthio; trifluoromethyl; cyano; carboxy; tetrazolyl; 2-oxo-oxazolidinyl; 3-hydroxy-3-cyclobutene-1,2-dione-4-yl; 2,4-thiazolidinedione-5-yl; tetrazol-5-ylaminocarbonyl; 1,2,4-triazol-5-yl optionally substituted by R^{10}; ~~or~~ 5-oxo-1,2,4-oxadiazol-3-yl; (C_{1-6})alkoxycarbonyl; (C_{1-6})alkylcarbonyl; (C_{2-6})alkenyloxycarbonyl; (C_{2-6})alkenylcarbonyl; hydroxy optionally substituted by (C_{1-6})alkyl, (C_{2-6})alkenyl, (C_{1-6})alkylcarbonyl, (C_{2-6})alkenylcarbonyl or aminocarbonyl wherein the amino group is optionally substituted by (C_{1-6})alkyl, or (C_{2-6})alkenyl; and amino optionally mono- or disubstituted by (C_{1-6})alkoxycarbonyl, (C_{1-6})alkylcarbonyl, (C_{2-6})alkenyloxycarbonyl, (C_{2-6})alkenylcarbonyl, (C_{1-6})alkyl, (C_{2-6})alkenyl, (C_{1-6})alkylsulphonyl, (C_{2-6})alkenylsulphonyl or aminocarbonyl wherein the amino group is optionally substituted by (C_{1-6})alkyl or (C_{2-6})alkenyl;

in addition when R^3 is disubstituted with a hydroxy or amino containing substituent and a carboxy containing substituent these may together form a cyclic ester or amide linkage, respectively;

R^4 is a group -U-R^5 where
U is selected from CO, SO_2 and CH_2 and
R^5 is an optionally substituted bicyclic carbocyclic or heterocyclic ring system (A):



(A)

containing up to four heteroatoms in each ring in which

ring (a) is aromatic and ring (b) is non-aromatic;

X^1 is C or N;

X^2 is N, NR^{13}, O, $S(O)_x$, CO or CR^{14};

X^3 and X^5 are independently N or C;

Y^1 is a 0 to 4 atom linker group each atom of which is independently selected from N, NR^{13}, O, $S(O)_x$, CO and CR^{14};

Y^2 is a 2 to 6 atom linker group, each atom of Y^2 being independently selected from N, NR^{13}, O, $S(O)_x$, CO, CR^{14} and $CR^{14}R^{15}$;
each of R^{14} and R^{15} is independently selected from: H; (C_{1-4})alkylthio; halo; carboxy(C_{1-4})alkyl; halo(C_{1-4})alkoxy; halo(C_{1-4})alkyl; (C_{1-4})alkyl; (C_{2-4})alkenyl; (C_{1-4})alkoxycarbonyl; formyl; (C_{1-4})alkylcarbonyl; (C_{2-4})alkenyloxycarbonyl; (C_{2-4})alkenylcarbonyl; (C_{1-4})alkylcarbonyloxy; (C_{1-4})alkoxycarbonyl(C_{1-4})alkyl; hydroxy; hydroxy(C_{1-4})alkyl; mercapto(C_{1-4})alkyl; (C_{1-4})alkoxy; trifluoromethoxy; nitro; cyano; carboxy; amino or aminocarbonyl optionally substituted as for corresponding substituents in R^3; (C_{1-4})alkylsulphonyl; (C_{2-4})alkenylsulphonyl; ~~or~~ aminosulphonyl wherein the amino group is optionally mono- or di-substituted by (C_{1-4})alkyl or (C_{2-4})alkenyl; aryl; aryl(C_{1-4})alkyl; and aryl(C_{1-4})alkoxy;

each R^{13} is independently H; trifluoromethyl; (C_{1-4})alkyl optionally substituted by hydroxy, (C_{1-6})alkoxy, (C_{1-6})alkylthio, halo or trifluoromethyl; (C_{2-4})alkenyl; aryl; aryl (C_{1-4})alkyl; arylcarbonyl; heteroarylcarbonyl; (C_{1-4})alkoxycarbonyl; (C_{1-4})alkylcarbonyl; formyl; (C_{1-6})alkylsulphonyl; or aminocarbonyl wherein the amino group is optionally substituted by (C_{1-4})alkoxycarbonyl, (C_{1-4})alkylcarbonyl, (C_{2-4})alkenyloxycarbonyl, (C_{2-4})alkenylcarbonyl, (C_{1-4})alkyl or (C_{2-4})alkenyl and optionally further substituted by (C_{1-4})alkyl or (C_{2-4})alkenyl;

each x is independently 0, 1 or 2

n is 0 and AB is $NR^{11}CO$, $CO\text{-}CR^8R^9$, $CR^6R^7\text{-}CO$, $NHR^{11}SO_2$, $CR^6R^7\text{-}SO_2$ or $CR^6R^7\text{-}CR^8R^9$, provided that R^8 and R^9 are not optionally substituted hydroxy or amino and R^6 and R^8 do not represent a bond:
or n is 1 and AB is $NR^{11}CO$, $CO\text{-}CR^8R^9$, $CR^6R^7\text{-}CO$, $NR^{11}SO_2$, $CONR^{11}$, $CR^6R^7\text{-}CR^8R^9$, $O\text{-}CR^8R^9$ or $NR^{11}\text{-}CR^8R^9$;
each of R^6, R^7, R^8 and R^9 is independently selected from: hydrogen; $(C_{1\text{-}6})$alkoxy; $(C_{1\text{-}6})$alkylthio; halo; trifluoromethyl; azido; $(C_{1\text{-}6})$alkyl; $(C_{2\text{-}6})$alkenyl; $(C_{1\text{-}6})$alkoxycarbonyl; $(C_{1\text{-}6})$alkylcarbonyl; $(C_{2\text{-}6})$alkenyloxycarbonyl; $(C_{2\text{-}6})$alkenylcarbonyl; hydroxy, amino or aminocarbonyl optionally substituted as for corresponding substituents in R^3; $(C_{1\text{-}6})$alkylsulphonyl; $(C_{2\text{-}6})$alkenylsulphonyl; ~~or~~ and aminosulphonyl wherein the amino group is optionally substituted by $(C_{1\text{-}6})$alkyl or $(C_{2\text{-}6})$alkenyl;
or when n=1 R^6 and R^8 together represent a bond and R^7 and R^9 are as above defined;
or R^6 and R^7 or R^8 and R^9 together represent oxo;

R^{10} is selected from $(C_{1\text{-}4})$alkyl; $(C_{2\text{-}4})$alkenyl and aryl any of which may be optionally substituted by a group R^{12} as defined above; carboxy; aminocarbonyl wherein the amino group is optionally substituted by hydroxy, $(C_{1\text{-}6})$alkyl, $(C_{2\text{-}6})$alkenyl, $(C_{1\text{-}6})$alkylsulphonyl, trifluoromethylsulphonyl, $(C_{2\text{-}6})$alkenylsulphonyl, $(C_{1\text{-}6})$alkoxycarbonyl, $(C_{1\text{-}6})$alkylcarbonyl, $(C_{2\text{-}6})$alkenyloxycarbonyl or $(C_{2\text{-}6})$alkenylcarbonyl and optionally further substituted by $(C_{1\text{-}6})$alkyl or $(C_{2\text{-}6})$alkenyl; and

R^{11} is hydrogen; trifluoromethyl, $(C_{1\text{-}6})$alkyl; $(C_{2\text{-}6})$alkenyl; $(C_{1\text{-}6})$alkoxycarbonyl; $(C_{1\text{-}6})$alkylcarbonyl; or aminocarbonyl wherein the amino group is optionally substituted by $(C_{1\text{-}6})$alkoxycarbonyl, $(C_{1\text{-}6})$alkylcarbonyl, $(C_{2\text{-}6})$alkenyloxycarbonyl, $(C_{2\text{-}6})$alkenylcarbonyl, $(C_{1\text{-}6})$alkyl or $(C_{2\text{-}6})$alkenyl and optionally further substituted by $(C_{1\text{-}6})$alkyl or $(C_{2\text{-}6})$alkenyl;

or where one of R^3 and R^6, R^7, R^8 or R^9 contains a carboxy group and the other contains a hydroxy or amino group they may together form a cyclic ester or amide linkage.

2. (Original) A compound according to claim 1 wherein Z^5 is CH, C-Cl or N, Z^3 is CH or CF and Z^1, Z^2 and Z^4 are each CH, or Z^1 is N, Z^3 is CH and Z^2 and Z^4 are each CH and Z^5 is CH or C-Cl.

3. (Previously presented) A compound according to claim 1 wherein R^1 is methoxy and R^{1a} is H or when Z^3 is CR^{1a} it may be C-F or when Z^5 is CR^{1a} it may be C-F or C-Cl.

4. (Previously presented) A compound according to claim 1 wherein R^2 is hydrogen, carboxymethyl, hydroxyethyl, aminocarbonylmethyl, ethoxycarbonylmethyl, ethoxycarbonylallyl or carboxyallyl.

5. (Previously presented) A compound according to claim 1 wherein R^3 is CF_3, fluoro, oxo or amino unsubstituted or substituted by (C_{1-6})alkyl or (C_{2-6})alkenyl.

6. (Previously presented) A compound according to claim 1 wherein n is 0 and either A is CH_2 or CHOH and B is CH_2 or A is NH and B is CO.

7. (Previously presented) A compound according to claim 1 wherein –U- is $-CH_2-$.

8. (Currently Amended) A compound according to claim 1 wherein in the heterocyclic ring (A) ring (a) is selected from optionally substituted benzo and pyrido and Y^2 has 3-5 atoms including a heteroatom bonded to X^5 selected from NR^{13}, O ~~or~~ and S, where R^{13} is other than hydrogen, and NHCO bonded via N to X^3, or O or NH bonded to X^3.

9. (Currently Amended) A compound according to claim 1 wherein R^5 is selected from:

4H-benzo[1,4] oxazin-3-one-6-yl;
4H-benzo[1,4] thiazin-3-one-6-yl;
2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-yl;
3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl;
3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazin-6-yl;
7-chloro-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazin-6-yl; and
7-chloro-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl.

10. (Currently amended) A compound according to claim 1 selected from: 6-({2*S*,4*S*)-1-[(*R*)-2-Hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)ethyl]-2-(trifluoromethyl)piperidin-4-ylamino}methyl)-4*H*-benzo[1,4]thiazin-3-one;

6-({(3*R*,4*S*)-1-[(*R*)-2-Hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)ethyl]-3-(trifluoromethyl)piperidin-4-ylamino}methyl)-4*H*-benzo[1,4]thiazin-3-one;
6-({1-[(*R*)-2-Hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)ethyl]-4-(trifluoromethyl)piperidin-4-ylamino}methyl)-4*H*-benzo[1,4]thiazin-3-one;
6-({1-[(*R*)-2-Hydroxy-2-(6-methoxyquinolin-4-yl)ethyl]-2-oxopiperidin-4-ylamino}methyl)-4*H*-benzo[1,4]thiazin-3-one;
6-[({(3S,4R)-3-Fluoro-1-[(R)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4H-benzo[1,4]thiazin-3-one and 6-[({(3R,4S)-3-fluoro-1-[(R)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4H-benzo[1,4]thiazin-3-one ;
6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Diastereoisomer 1 ;
6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]-piperidin-4-ylamino}-methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Diastereoisomer 2 ;
7-Chloro-6-({cis 3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Diastereoisomer 1 ;
7-Chloro-6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Diastereoisomer 2 ;
6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Diastereoisomer 1 ;
6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Diastereoisomer 2 ;
7-Chloro-6-[({(3*S*,4*R*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one and 7-chloro-6-[({(3*R*,4*S*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one ;
7-Fluoro-6-({(3*S*,4*R*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one and 7-fluoro-6-[({(3*R*,4*S*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one;
7-({(3*S*,4*R*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-1*H*-pyrido[2,3-*b*][1,4]thiazin-2-one and 7-({(3*R*,4*S*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-1*H*-pyrido[2,3-*b*][1,4]thiazin-2-one;
7-Chloro-6-[({(3*S*,4*R*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one and 7-chloro-6-[({(3*R*,4*S*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one;

6-[({(3*S*,4*S*)-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-b][1,4]thiazin-3-one and 6-[({(3*R*,4*R*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-b][1,4]thiazin-3-one;

6-[({(3*S*,4*S*)-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-b][1,4]oxazin-3-one and 6-[({(3*R*,4*R*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-b][1,4]oxazin-3-one;

7-Fluoro-6-[({(3*S*,4*S*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-b][1,4]thiazin-3-one and 7-Fluoro-6-[({(3*R*,4*R*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-b][1,4]thiazin-3-one;

6-[({(3*S*,4*S*)-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-1*H*-pyrido[2,3-b][1,4]thiazin-3-one and 6-[({(3*R*,4*R*)-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-1*H*-pyrido[2,3-b][1,4]thiazin-3-one;

6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Diastereoisomer 1;

6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Diastereoisomer 2;

6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Diastereoisomer 1;

6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Diastereoisomer 2;

7-Chloro-6-({cis-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Diastereoisomer 1;

7-Chloro-6-({cis-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Diastereoisomer 2;

6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(8-fluoro-6-methoxy-quinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Diastereoisomer 1;

6-({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(8-fluoro-6-methoxy-quinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Diastereoisomer 1;

6-({(3R,4S)-1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-3-fluoro-piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one and 6-({(3S,4R)-1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-3-fluoro-piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one;

6-({(3R,4S)-3-Fluoro-1-[2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one and 6-({(3S,4R)-3-fluoro-1-[2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one;

6-[({(3*S*,4*R*)-3-Fluoro-1-[(*S*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one and 6-[({(3*R*,4*S*)-3-fluoro-1-[(*S*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one;

6-({(3R,4S)-1-[2-(2,3-Dihydro-[1,4]dioxino[2,3-f]quinolin-10-yl)-ethyl]-3-fluoro-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one and 6-({(3S,4R)-1-[2-(2,3-dihydro-[1,4]dioxino[2,3-f]quinolin-10-yl)-ethyl]-3-fluoro-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one;

6-({(3R,4S)-1-[2-(6,8-Difluoro-quinolin-4-yl)-ethyl]-3-fluoro-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one and 6-({(3S,4R)-1-[2-(6,8-difluoro-quinolin-4-yl)-ethyl]-3-fluoro-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one;

6-[({(3*S*,4*R*)-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-benzo[1,4]thiazin-3-one and 6-[({(3*R*,4*S*)-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-benzo[1,4]thiazin-3-one;

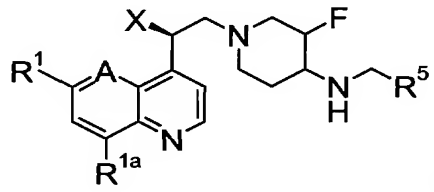
6-[({cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-benzo[1,4]thiazin-3-one Faster running Diastereoisomer;

6-[({(cis-3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]piperidin-4-ylamino}methyl)-4*H*-benzo[1,4]thiazin-3-one Slower-running Diastereoisomer;

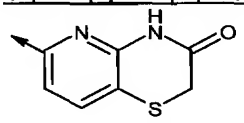
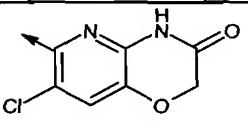
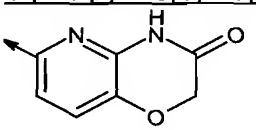
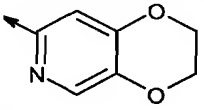
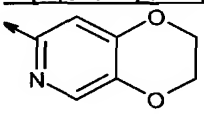
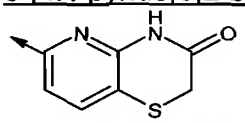
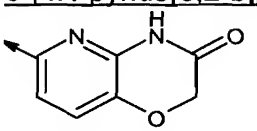
6-({2*S*,4*S*)-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)ethyl]-2-(trifluoromethyl)piperidin-4-ylamino}methyl)-4*H*-pyrido[1,4]thiazin-3-one ;

6-({2*S*,4*R*)-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)ethyl]-2-(trifluoromethyl)piperidin-4-ylamino}methyl)-4*H*-pyrido[1,4]thiazin-3-one;

and the following tabulated compounds of formula (X):



(X)

Isomeric form	A	R^1	R^{1a}	X	R^5
Enantiomer 2	CH	MeO	F	OH	6-[4H-pyrido[3,2-b][1,4]thiazin-3-one] 
Enantiomer 1	CH	MeO	F	OH	6-[7-chloro-4H-pyrido[3,2-b][1,4]oxazin-3-one] 
Enantiomer 2	CH	MeO	F	OH	6-[4H-pyrido[3,2-b][1,4]oxazin-3-one]] 
Enantiomer 2	CH	MeO	H	OH	7-[2,3-dihydro-[1,4]dioxino[2,3-c]pyridine] 
Enantiomer 1	CH	MeO	H	OH	7-[2,3-dihydro-[1,4]dioxino[2,3-c]pyridine] 
Enantiomer 2	N	MeO	H	H	6-[4H-pyrido[3,2-b][1,4]thiazin-3-one] 
Racemic	CH	F	F	H	6-[4H-pyrido[3,2-b][1,4]oxazin-3-one]] 

or a pharmaceutically acceptable ~~derivative~~ salt and/or N-oxide thereof.

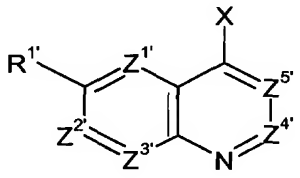
11. (Currently amended) A method of treatment of bacterial infections in mammals~~, particularly in man~~, which method comprises the administration to a mammal in need of such treatment an effective amount of a compound according to claim 1.

Claims 12 and 13 (Cancelled).

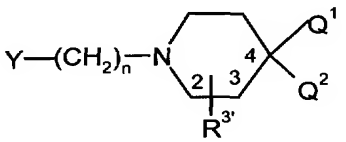
14. (Original) A pharmaceutical composition comprising a compound according to claim 1, and a pharmaceutically acceptable carrier.

Claims 15 and 16 (Cancelled).

17. (Currently amended) A process for preparing a compound of formula (I) according to claim 1, or a pharmaceutically acceptable ~~derivative~~ salt and/or N-oxide thereof, which process comprises reacting a compound of formula (IV) with a compound of formula (V):



(IV)



(V)

wherein n is as defined in formula (I); $Z^{1'}$, $Z^{2'}$, $Z^{3'}$, $Z^{4'}$, $Z^{5'}$, $R^{1'}$, and $R^{3'}$ are Z^1, Z^2, Z^3, Z^4, Z^5, R^1, and R^3 are as defined in formula (I) or groups convertible thereto; Q^1 is $NR^{2'}R^{4'}$ or a group convertible thereto wherein $R^{2'}$ and $R^{4'}$ are R^2 and R^4 as defined in formula (I) or groups convertible thereto and Q^2 is H or $R^{3'}$ or Q^1 and Q^2 together form an optionally protected oxo group;

(i) X is A'-COW, Y is H and n is 0;

(ii) X is $CR^6=CR^8R^9$, Y is H and n is 0;

(iii) X is oxirane, Y is H and n is 0;

(iv) X is N=C=O and Y is H and n is 0;

(v) one of X and Y is CO_2R^y and the other is $CH_2CO_2R^x$;

(vi) X is CHR^6R^7 and Y is $C(=O)R^9$;

(vii) X is $CR^7=PR^z{}_3$ and Y is $C(=O)R^9$ and n=1;

(viii) X is $C(=O)R^7$ and Y is $CR^9=PR^z{}_3$ and n=1;

(ix) Y is COW and X is $NHR^{11'}$ or NR11'COW and n=0 or 1 or when n=1 X is COW and Y is $NHR^{11'}$ or NR11'COW;

(x) X is $NHR^{11'}$ and Y is $C(=O)R^8$ and n=1;

(xi) X is $NHR^{11'}$ and Y is CR^8R^9W and n=1;

(xii) X is $NR^{11'}COCH_2W$ or $NR^{11'}SO_2CH_2W$ and Y is H and n=0;

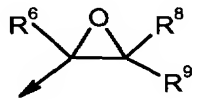
(xiii) X is $CR^6R^7SO_2W$ and Y is H and n=0;

(xiv) X is W or OH and Y is CH_2OH and n is 1;

(xv) X is $NHR^{11'}$ and Y is SO_2W or X is $NR^{11'}SO_2W$ and Y is H, and n is 0;

(xvi) X is W and Y is $CONHR^{11'}$;

in which W is a leaving group~~, e.g. halo or imidazolyl~~; R^x and R^y are (C_{1-6})alkyl; R^z is aryl or (C_{1-6})alkyl; A' and $NR^{11'}$ are A and NR^{11} as defined in formula (I), or groups convertible thereto; and oxirane is:



wherein R^6, R^8 and R^9 are as defined in formula (I);
and thereafter optionally or as necessary converting Q^1 and Q^2 to $NR^{2'}R^{4'}$; converting A', $Z^{1'}$, $Z^{2'}$, $Z^{3'}$, $Z^{4'}$, $Z^{5'}$, $R^{1'}$, $R^{2'}$, $R^{3'}$, $R^{4'}$ and ~~$NR^{11'}$;to~~ $NR^{11'}$ to A, Z^1, Z^2, Z^3, Z^4, Z^5, R^1, R^2, R^3, R^4 and NR^{11}; converting A-B to other A-B, interconverting R^1, R^2, R^3 and/or R^4, and/or forming a pharmaceutically acceptable ~~derivative~~ salt and/or N-oxide thereof.

18. (New) A compound according to claim 1 wherein R^3 is fluoro.